

What is claimed is:

1. A protection device for protecting an electrical component, comprising:
- 5 a protective housing having a base with a contact hole therethrough for receiving an electrical terminal pin, and having a projecting perimeter wall extending from the base;
- a sleeve joined to the perimeter wall; and
- 10 a terminal cap captured between the sleeve and the protective housing, wherein the electrical component is permitted to reside between and be protected by the housing and the terminal cap.
- 15 2. The protection device of claim 1, wherein the base has an orifice therethrough for receiving a projection on a supporting surface which supports the base.
3. The protection device of claim 1, further including
- 20 a means for fastening joined to the base and joined to an electrical terminal pin extending through the contact hole.
- 25 4. The protection device of claim 3, wherein the means for fastening is a tinnerman fastener.

5. The protection device of claim 1, further comprising an adhesive on the base.

5 6. The protection device of claim 5, further
comprising a sheet having the adhesive thereon.

The protection device of claim 1, further comprising a sheet between the base and the battery.

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9. An electrical power providing unit having a battery, an electrical component electrically connected to the battery, and a protection device for protecting the electrical component, the protection device comprising:

a protective housing having a base with a contact hole therethrough for receiving a terminal pin of the battery, and having a projecting perimeter wall extending from the base;

20 a sleeve joined to the perimeter wall; and

a terminal cap captured between the sleeve and the protective housing, wherein the electrical component resides between the base and the terminal cap.

10. The power providing unit of claim 9, wherein the base has an orifice therethrough for receiving a projection on the battery.

5 11. The power providing unit of claim 10, wherein the projection is a metallic substance bonded to the battery, and resides at least partially in the orifice.

10 12. The power providing unit of claim 11, wherein the metallic substance is characterized as having been welded to the battery.

15 13. The power providing unit of claim 9, further including a means for fastening joining the base to the terminal pin of the battery.

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#4 14. ~~The power providing unit of claim 13, wherein the means for fastening is a tinnerman fastener.~~

20 15. The power providing unit of claim 9, further comprising an adhesive between the base and the battery.

16. The power providing unit of claim 9, further comprising a sheet between the base and the battery.

17. A method of assembling a battery and an electrical component, comprising:

providing a battery having a terminal pin;

providing a protective housing having a base with a
5 contact hole therethrough, and a perimeter wall;

placing the protective housing on the battery so
that the terminal pin extends into the contact hole;

providing an electrical component on the base;

electrically connecting the electrical component to
10 the terminal pin;

providing a terminal cap within the perimeter wall;

providing a sleeve;

inserting the sleeve within the perimeter wall; and

electrically connecting the terminal cap to the
15 electrical component.

18. The method of claim 17, further comprising
providing an insulating material on the electrical
component.

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19. The method of claim 17, further comprising
✓ providing an adhesive between the battery and the
protective housing.

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20. The method of claim 17, further comprising providing a compressible sheet of material between the battery and the protective housing.

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